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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/501,089	02/04/2005	Jens-Henrik B Hansen	Z0200.0001/P001	3606
24998 DICKSTEIN SI	7590 · 05/08/200 HAPIRO LLP	7	EXAMINER	
1825 EYE STREET NW			VANOY, TIMOTHY C	
Washington, Do	C 20006-5403		ART UNIT	PAPER NUMBER
		·	1754	
•			MAIL DATE	DELIVERY MODE
			05/08/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

			ゃ		
	Application No.	Applicant(s)			
	10/501,089	HANSEN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Timothy C. Vanoy	1754			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	th the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by significantly received by the Office later than three months after the nearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a ron. eriod will apply and will expire SIX (6) MON tatute, cause the application to become AB	CATION. pply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status		•			
1)⊠ Responsive to communication(s) filed on <u>0</u>	9 July 2004.				
3) Since this application is in condition for allo	owance except for formal matte	ers, prosecution as to the merits is			
closed in accordance with the practice und	ler <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-3</u> is/are pending in the applicati	on.				
4a) Of the above claim(s) is/are with	drawn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-3</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction a	nd/or election requirement.				
Application Papers					
9) The specification is objected to by the Exar	niner.				
10)⊠ The drawing(s) filed on 09 July 2004 is/are	: a)⊠ accepted or b)⊡ objec	ted to by the Examiner.			
Applicant may not request that any objection to	the drawing(s) be held in abeyar	ice. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the co	rrection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).			
11)⊠ The oath or declaration is objected to by th	e Examiner. Note the attached	Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for for a)⊠ All b)☐ Some * c)☐ None of:	eign priority under 35 U.S.C. §	119(a)-(d) or (f).			
 Certified copies of the priority docun 	nents have been received.				
2. Certified copies of the priority docun					
3. Copies of the certified copies of the	•	received in this National Stage			
application from the International Bu	• • • • • • • • • • • • • • • • • • • •	ransivad			
* See the attached detailed Office action for a	rlist of the certified copies not	received.			
Attachment(s)					
1) Notice of References Cited (PTO-892)		Summary (PTO-413)			
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948 3) Information Disclosure Statement(s) (PTO/SB/08) 	,	s)/Mail Date nformal Patent Application			
Paper No(s)/Mail Date <u>July 9, 2004</u> .	6) Other:				
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DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Oath/Declaration

The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because non-initialed and/or non-dated alterations have been made to the mailing addresses for the inventors Jens-Henrik B. Hansen and Inga Sigurdardottir in the oath or declaration filed on Feb. 4, 2005. See 37 CFR 1.52(c).

Specification

- a) The specification is objected because the footnotes to Table 1 set forth on pg. 7 in the specification are not in double-spaced typing.
- b) The specification is objected to because it lacks a "Brief Description of the Drawings" with a brief description of each of the figures individually.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

a) Claim 1 is somewhat confusing because it does not particularly point out and distinctly set forth if the absorbent: (i) has been previously activated with a reducing gas, or (ii) if the absorbent is con-currently activated with a reducing gas during the desulfurization process. That is, was it the applicants' intention to replace "and" in line 5 in claim 1 with --which has been--?

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by U. S. Pat. 4,521,387 to Broecker et al.

Claim 1 in the Broecker et al. patent describes a process for removing H_2S , COS, etc. out of a gas comprising CO and/or CO_2 (in Example 3, a synthesis gas containing both H_2 and CO are mentioned) by contacting the gas with a Cu/ZnO catalyst. Example 3 mentions a contact temperature of 100 °C. Col. 3 lns. 32-34 mentions that in order to bring the catalyst into its active form, the catalyst has been reduced in a reactor with a H_2/N_2 mixture.

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The following references are made of record:

EP 0 599 351 A1 disclosing the use of a copper-zinc desulfurizing agent to desulfurize town gas;

- U. S. Pat. 6,251,348 B1 disclosing a process for increasing the reactivity of sulfur compound scavenging agents;
- U. S. Pat. 5,853,681 disclosing the use of copper-based sorbents for sorbing sulfur compounds (such as hydrogen sulfide) out of gases and liquids;
- U. S. Pat. 5,674,463 disclosing the use of copper oxide, zinc oxide or mixtures of these for desulfurizing gaseous carbon dioxide;
- U. S. Pat. 4,983,367 disclosing the use of compounds of copper and zinc for removing sulfur compounds from fluids;
 - U. S. Pat. 4,983,365 disclosing a desulfurization sorbent;
- U. S. Pat. 4,871,710 disclosing sorbents comprising copper and zinc for sulfur compound removal, and
- U. S. Pat. 4,455,286 disclosing the use of a copper oxide/zinc oxide mixture as a sorbent for removing hydrogen sulfide from a gaseous fuel mixture.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy C. Vanoy whose telephone number is 571-272-8158. The examiner can normally be reached on Mon-Fri 8-4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman, can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Timothy C Vanoy
Primary Examiner
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